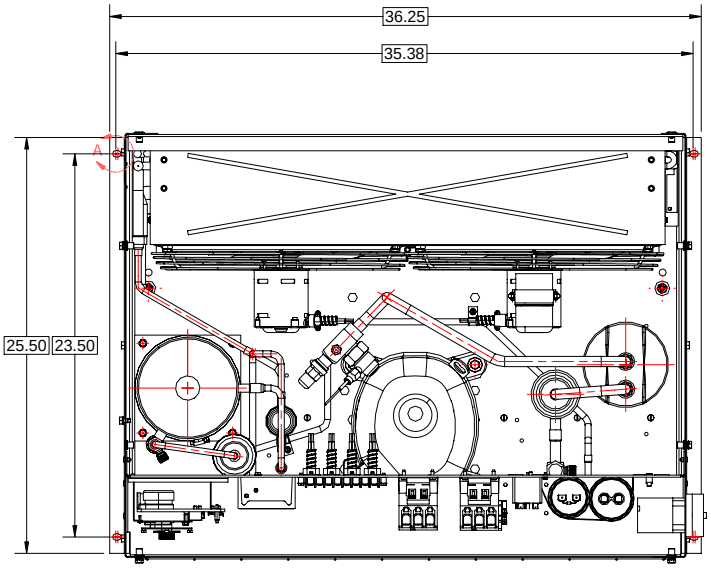
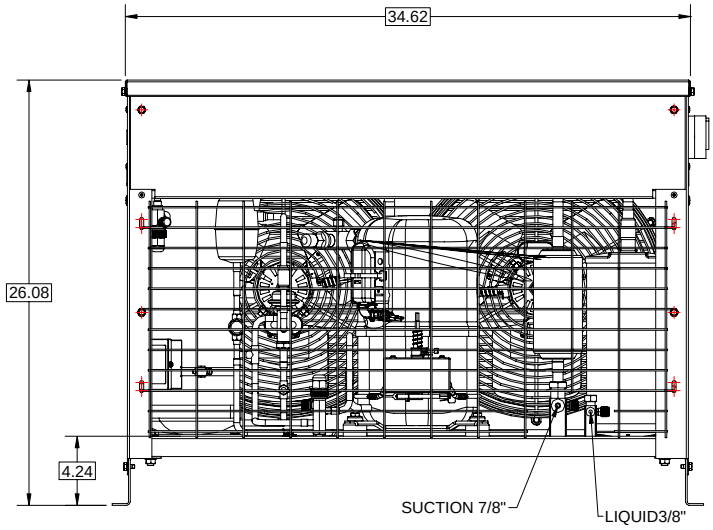
TECUMSEH OUTDOOR CONDENSING UNIT

Model	**AWG4525EXNHN**
BOM	**32L2191-2E***
Air Cooled	**2 HP**
Application	**High Temp**
Refrigerant	**R22**
Volts-Hz-Ph	**208-230/60/1**





AWG4525EXNHN	Overall Dimensions, inch (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross weight
	L	W	H	Suction	Liquid	90% @ 90°F	SCFM	Oz.	Lbs. (kg)
	26.55 (674)	28.94 (735)	26.08 (662)	7/8"	3/8"	23.26 lbs	1500	38.6	300 (136)

Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures														
		80°F			90°F			95°F			100°F			110°F		
T, °F	PSIG	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
10	32.8	13400	1850	92	12000	1890	102	11400	1920	107	10700	1940	112	9500	1980	122
15	37.7	15100	1940	93	13700	2000	104	13000	2030	108	12300	2050	113	11000	2110	123
20	43.0	17000	2040	95	15500	2100	105	14800	2140	110	14100	2170	115	12600	2230	125
25	48.8	19100	2130	97	17500	2210	107	16700	2250	112	15900	2290	117	14300	2360	126
30	54.9	21200	2230	99	19500	2320	109	18600	2360	114	17800	2400	118	16100	2490	128
35	61.5	23500	2330	101	21600	2430	111	20700	2470	116	19800	2520	120	17900	2620	130
40	68.5	25800	2420	103	23800	2530	113	22900	2590	118	21900	2640	122	19900	2750	132
45	**76.0**	**28300**	**2520**	**106**	**26200**	**2640**	**115**	**25100**	**2700**	**120**	**24000**	**2760**	**125**	**21900**	**2880**	**134**
50	84.0	30900	2620	108	28600	2750	118	27500	2820	122	26300	2890	127	24000	3010	136
55	92.6	33700	2710	111	31200	2860	120	29900	2940	125	28700	3010	129	26100	3150	138

Performance @ 60 Hz, Return Gas Temperature 65°F, --- SubCooling 5°F

*** OPTION CODE:** See reverse side for Available Options

Parts/Specifications

STANDARD

Unit BOM	**32L2191-2E**	Fan Motor	810F050C20
Unit MODEL	**AWG4525EXNHN**	Replacement Fan Motor	50W230
		Fan Motor Qty	2
Refrigeration Range	10°F to 55°F	Fan Motor RLA	0.7
Design Pressure Low / High	150 / 450	Fan Blade	51568-1
Volts - HZ - Ph	208-230V ~ 60HZ	Fan Guard	70831
Voltage Range	187-254	Shroud	70648-2
Min. Circuit Ampacity	16.27		
Max. Fuse Size	30	High Pressure Switch	84095-1L
		Low Pressure Control	84026-2
Compressor MODEL	AWG5524EXN	Dual Pressure Conrol	
Compressor BOM	AW705ET-099-A2		
Compressor LRA	60	Head Master Valve	70083-1
Compressor RLA	11.73	Check Valve	56626
		Process Valve	31583-1
OverLoad	Internal	Discharge Valve (Base)	56618
Replacement Kit - O/L		Liquid Valve (Base)	56500-K06
Relay	820ARR3J50	Liquid Valve (Receiver)	attached
Replacement Kit - Relay	K71-19	Suction Valve (Base)	56500-K14
Run Capacitor	85PR370F17	Suction Valve (Rotolock)	
Run Capacitor Rating	35 MFD 370V		
Start Capacitor	85PS330D76	Condenser	50858-1
Start Capacitor Rating	88-108 MFD 330V	Receiver	51099-2L
Contactor	91017A	Accumulator	TK00042000
		Liquid Filter	70139
Unit Drawing	DGU1918-L103	Sight Glass	70084-S
Wiring Diagram	WD21-2XT2	Suction Filter	70822-5S
Wiring Diagram (A or F opt.)	WD21-2AT2	CrankCase Heater	91022-1

AVAILABLE OPTIONS

32Lxxxx-2ER(F)ATnD

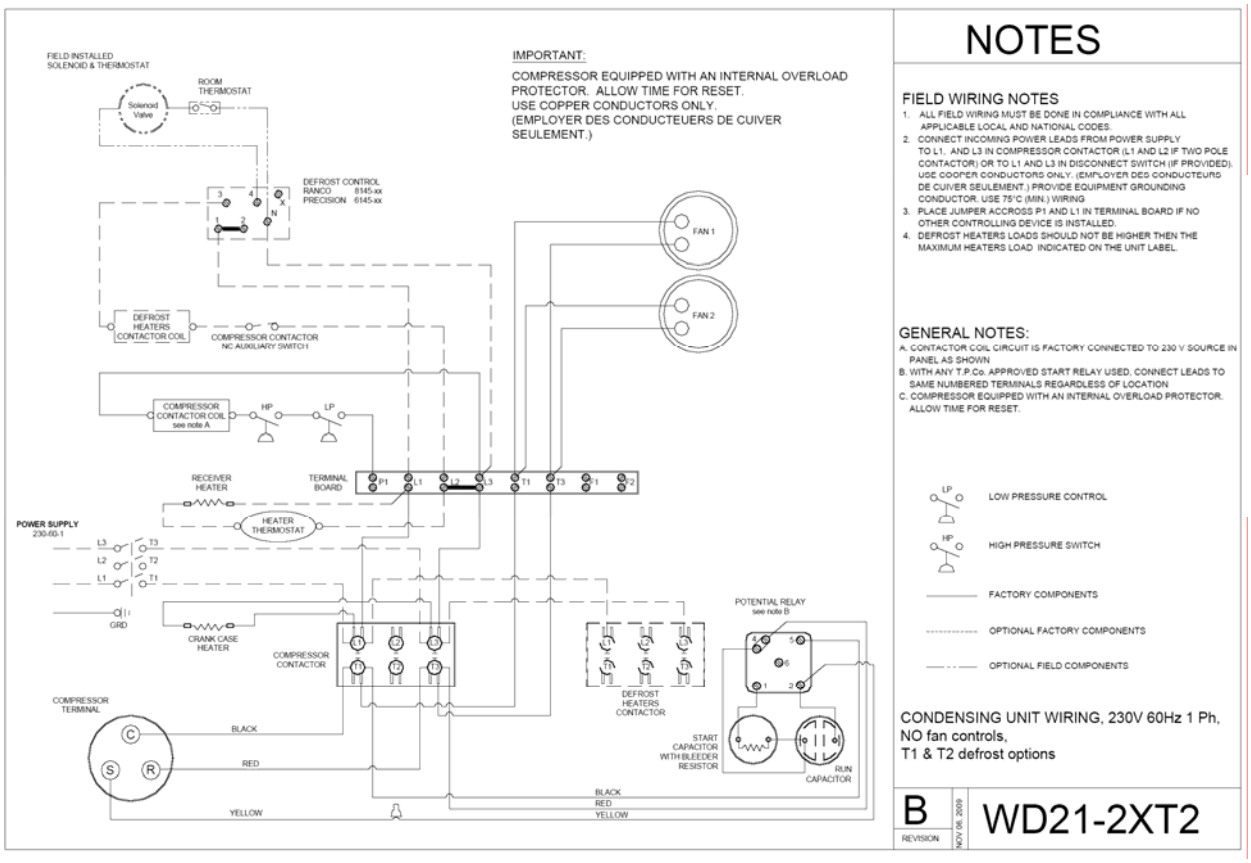
R Heated/Insulated Receiver
F Fixed Fan Control
A Adjustable Fan Control
T1 Air Defrost Timer
T2 Electrical Defrost Timer & Defrost Heater Contactor
D Disconnect Switch (nonfused)

AVAILABLE ACCESSORIES

Solenoid Valve (supplied loose)	KSVC-264
Hail Louver Assy	LLPG-201

REPLACEMENT PARTS

Receiver Heater (R option)	92124-2
Receiver Thermostat (R option)	84102-2
Fixed Fan Control (F option)	84132-01
Adjustable Fan Control (A option)	14955874
Defrost Timer (T1 or T2 option)	84110
Defrost Heater Contactor and Auxiliary Switch (T2 opt.)	91017A and 91017A-AUX
Disconnect (D option)	


FIELD INSTALLED SOLENOID & THERMOSTAT
ROOM THERMOSTAT
Solenoid Valve
DEFROST CONTROL RANCO 8145-xx PRECISION 6145-xx
DEFROST HEATERS CONTACTOR COIL
COMPRESSOR CONTACTOR NC AUXILIARY SWITCH
COMPRESSOR CONTACTOR COIL see note A
HP
LP
RECEIVER HEATER
TERMINAL BOARD
HEATER THERMOSTAT
POWER SUPPLY 230-60-1
GRD
CRANK CASE HEATER
COMPRESSOR CONTACTOR
POTENTIAL RELAY see note B
DEFROST HEATERS CONTACTOR
COMPRESSOR TERMINAL
START CAPACITOR WITH BLEEDER RESISTOR
RUN CAPACITOR
FAN 1
FAN 2
BLACK
RED
YELLOW
IMPORTANT:
COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.)
NOTES
FIELD WIRING NOTES
1. ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.
2. CONNECT INCOMING POWER LEADS FROM POWER SUPPLY TO L1, AND L3 IN COMPRESSOR CONTACTOR (L1 AND L2 IF TWO POLE CONTACTOR) OR TO L1 AND L3 IN DISCONNECT SWITCH (IF PROVIDED). USE COOPER CONDUCTORS ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING
3. PLACE JUMPER ACCROSS P1 AND L1 IN TERMINAL BOARD IF NO OTHER CONTROLLING DEVICE IS INSTALLED.
4. DEFROST HEATERS LOADS SHOULD NOT BE HIGHER THEN THE MAXIMUM HEATERS LOAD INDICATED ON THE UNIT LABEL.
GENERAL NOTES:
A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V SOURCE IN PANEL AS SHOWN
B. WITH ANY T.P.Co. APPROVED START RELAY USED. CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION
C. COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
LOW PRESSURE CONTROL
HIGH PRESSURE SWITCH
FACTORY COMPONENTS
OPTIONAL FACTORY COMPONENTS
OPTIONAL FIELD COMPONENTS
CONDENSING UNIT WIRING, 230V 60Hz 1 Ph,
NO fan controls,
T1 & T2 defrost options
B
REVISION
NOV 06, 2009
WD21-2XT2